(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 21 April 2005 (21.04.2005)

PCT

(10) International Publication Number WO 2005/035495 A3

- (51) International Patent Classification⁷: A61K 31/4035, C07D 209/46, A61P 7/02, C07D 401/06, 413/04
- (21) International Application Number:

PCT/IB2004/051922

(22) International Filing Date:

30 September 2004 (30.09.2004)

(25) Filing Language:

English

(26) Publication Language:

1054/MUM/2003

English

(30) Priority Data:

8 October 2003 (08.10.2003)

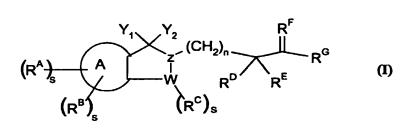
- (71) Applicant (for all designated States except US): NICHOLAS PIRAMAL INDIA LIMITED [IN/IN]; Nicholas Piramal Tower, Peninsula Corporate Park, Ganpatrao Kadam Marg, Lower Parel, Mumbai 400013, Maharashtra (IN).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): LAL, Bansi [IN/IN]; Nicholas Piramal Research Center, Nicholas Piramal India Limited, 1A, 1B & 1C - Nirlon Complex, Off Western Express Highway, Near NSE Complex, Goregaon (East). Mumbai 400063, Maharashtra (IN). GANGOPADHYAY, Ashok, Kumar [IN/IN]; Nicholas Piramal Research Center, Nicholas Piramal India Limited, 1A, 1B & 1C - Nirlon Complex, Off Western Express Highway, Near NSE Complex, Goregaon (East), Mumbai 400063, Maharashtra (IN). RAO, Vadlamudi, V., S., V. [IN/IN]; Nicholas Piramal Research Centre, Nicholas Piramal India Limited, 1A, 1B & 1C - Nirlon Complex, Off Western Express Highway, Near NSE Complex, Goregaon (East), Mumbai 400063, Maharashtra (IN). GUPTE, Ravindra, Dattatraya [IN/IN]; Nicholas Piramal Research Centre, Nicholas Piramal India Limited, 1A, 1B & 1C - Nirlon Complex, Off Western Express Highway, Near NSE Complex, Goregaon (East), Mumbai 400063, Maharashtra (IN). GOLE, Gopal, Vishnu [IN/IN]; Nicholas Piramal

Research Centre, Nicholas Piramal India Limited, 1A, 1B & 1C - Nirlon Complex, Off Western Express Highway, Near NSE Complex, Goregaon (East), Mumbai 400063, Maharashtra (IN). KULKARNI-ALMEIDA, Asha [IN/IN]; Nicholas Piramal Research Centre, Nicholas Piramal India Limited, 1A, 1B & 1C - Nirlon Complex, Off Western Express Highway, Near NSE Complex, Goregaon (East), Mumbai 400063, Maharashtra (IN). KRISHNAN, Sridevi [IN/IN]; Nicholas Piramal Research Centre, Nicholas Piramal India Limited, 1A, 1B & 1C -Nirlon Complex, Off Western Express Highway, Near NSE Complex, Goregaon (East), Mumbai 400063, Maharashtra (IN). PANICKER, Radha, Bhaskar [IN/IN]; Nicholas Piramal Research Centre, Nicholas Piramal India Limited, 1A, 1B & 1C - Nirlon Complex, Off Western Highway, Near NSE Complex, Goregaon (East), Mumbai 400063, Maharashtra (IN). PINTO DE SOUZA, Eleanor [IN/IN]; Nicholas Piramal Research Centre, Nicholas Piramal India Limited, 1A, 1B & 1C - Nirlon Complex, Off Western Express Highway, Near NSE Complex, Goregaon (East), Mumbai 400063, Maharashtra (IN).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: FIBRINOGEN RECEPTOR ANTAGONISTS AND THEIR USE



(57) Abstract: This invention relates to novel fused bicyclic compounds of the general formula (I): wherein the symbols are defined herein, to pharmaceutical compositions containing the compounds, processes for preparing the compounds, and to methods of using the compounds, alone or in combination with other therapeutic agents. The compounds are antagonists of the platelet glycoprotein IIb/IIIa fibrinogen

receptor complex, and are therefore useful for the inhibition of platelet aggregation, and for the treatment of thrombotic diseases and other diseases.

O 2005/035495 A3

WO 2005/035495 A3



Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Date of publication of the amended claims:

29 September 2005

Published:

- with international search report
- with amended claims
- (88) Date of publication of the international search report: 7 July 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.